

ABSTRACT

A motor with dynamic pressure bearing has a radial dynamic pressure bearing section in which opposing radial dynamic pressure surfaces are formed on a rotor and a stator such that a dynamic pressure is generated in a lubrication fluid between the radial dynamic pressure surfaces to thereby rotatably support the rotor in a radial direction thereof with respect to the stator. The motor has thrust magnets mounted on the rotor and the stator in a manner to oppose to one another for generating a magnetic action to levitate the rotor in an axial direction thereof and rotatably support the rotor in a thrust direction thereof with respect to the stator. A magnetic shield device is provided between the thrust magnets and the radial dynamic pressure bearing section for isolating the radial dynamic pressure bearing section from a leak magnetic flux of the thrust magnets.